

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Marc A. Najork, Chandramohan A.

Thekkath, Lidong Zhou

Confirmation No.: Not yet assigned

Application No.: Not yet assigned

Group Art Unit: Not yet assigned

Filing Date: Herewith

Examiner: Not yet assigned

For: Systems and Methods for Logging and Recovering Updates to Data Structures

EXPRESS MAIL LABEL NO: EL997978445US

DATE OF DEPOSIT: September 30, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or

before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with the first or second After Final Submission, therefore:
 - Certification in Accordance with § 1.97(e) is attached; or
 - The fee of \$180.00 as set forth in § 1.17(p) is attached.
- In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:
 - Certification in Accordance with § 1.97(e) is attached;
 - or
 - The fee of \$180.00 as set forth in § 1.17(p) is attached.
- In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).
- Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- Copies of references listed on the attached Form PTO-1449 are enclosed herewith

EXCEPT THAT:

- In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
- Copies of references [list as appropriate] listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No.

, filed

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

- The relevance of those listed references which are not in the English language is as follows:
- There are no listed references which are not in the English language.

Date: September 30, 2003



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Form PTO-1449 Modified		Docket No. MSFT-2557/304882.01	Application No. Not yet assigned
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Marc A. Najork, Chandramohan A. Thekkath, Lidong Zhou	
U.S. Department of Commerce Patent and Trademark Office		Filing Date September 30, 2003	Group Not yet assigned
		Confirmation No. Not yet assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	Johnson, T.; "A Highly Concurrent Priority Queue;" <i>Journal of Parallel and Distributed Computing</i> ; 1994 ; 367-373	
	2	Fu, A. et al.; "Concurrency Control of Nested Transactions Accessing B-Trees;" <i>Proceedings of the 8th ACM SIGACT-SIGMOND-SIGART</i> ; 1989 ; 270-285	
	3	Haritsa, JR et al.; "Real-Time Index Concurrency Control;" <i>IEEE Transactions on Knowledge and Data Engineering</i> ; 2000 ; 429-447	
	4	Miyazaki, J. et al.; "Concurrency Control and Performance Evaluation of Parallel B-Tree Structures;" <i>IEICE Transactions on Information and Systems</i> ; 2002 ; 1269-1283	
	5	Bohannon P. et al.; "Main-Memory Index Structures with Fixed-Size Partial Keys;" <i>ACM SIGMOD</i> ; 2001 ; 163-174	
	6	Kumar, A.; "G-Tree: A New Data Structure for Organizing Multidimensional Data;" <i>IEEE Transactions on Knowledge and Data Engineering</i> ; 1994 ; 341-347	
	7	Klein, T.M., et al.; "Optimal B-Tree Packing;" <i>Information Systems</i> ; 1991 ; 239-243	
	8	Bayer, R. et al.; "Organization and Maintenance of Large Ordered Indexes;" <i>Acta Informatica</i> ; 1972 ; 173-189	
	9	Comer, D.; "The Ubiquitous B-Tree;" <i>Computing Surveys</i> ; 1979 ; 121-137	
	10	Sagiv, Y.; "Concurrent Operations on B-Trees with Overtaking;" <i>Journal of Computer and System Sciences</i> ; 1986 ; 275-296	
	11	Wang, P.; An In-Depth Analysis of Concurrent B-Tree Algorithms," <i>Master's Thesis submitted to the Department of Electrical Engineering and Computer Science, in partial fulfillment of the requirements for the degree of Master of Science in Electrical Engineering and Computer Science</i> ; 1991 ; (as revised)	
	12		
	13		
EXAMINER		DATE CONSIDERED	